

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

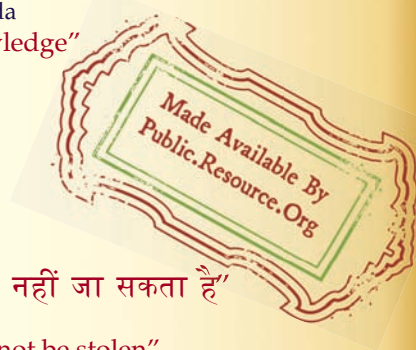
IS 8231 (1976): Clips, Paper, Spring Type [PGD 14: Consumer Products and Allied Equipments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

(Reaffirmed 2004)

SPECIFICATION FOR CLIPS, PAPER, SPRING TYPE

1. Scope — The materials, dimensions and performance requirements for spring type paper clips used to hold papers.

2. Types — The paper clips shall be of Type 1 and Type 2.

2.1 The Type 1 clips shall consist of two hinged wire handles and a spring.

2.2 The Type 2 clips shall consist of two die-stamped handles and a cylindrical spring or coil spring.

3. Materials

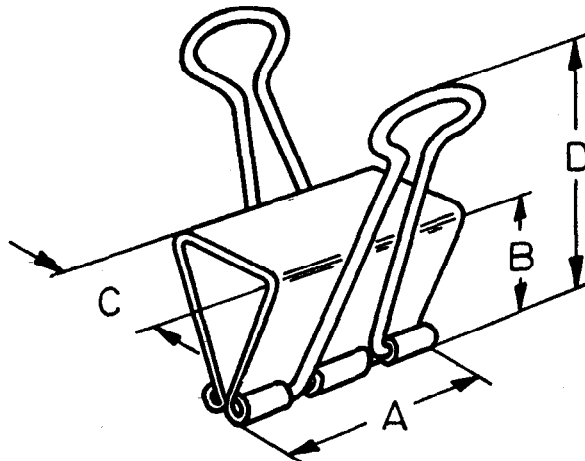
3.1 Spring — Cold rolled spring steel of suitable hardness to satisfy the requirements mentioned in the subsequent classes.

3.2 Handles for Type 1 Clips — Hard drawn steel wire suitable for particular size of clip. They shall retain their original rigidity and shape during normal use.

4. Shape and Dimensions — As shown in Fig. 1, 2 and 3 and Table 1 and Table 2.

TABLE 1 DIMENSIONS OF TYPE 1 CLIPS

All dimensions in millimetres.



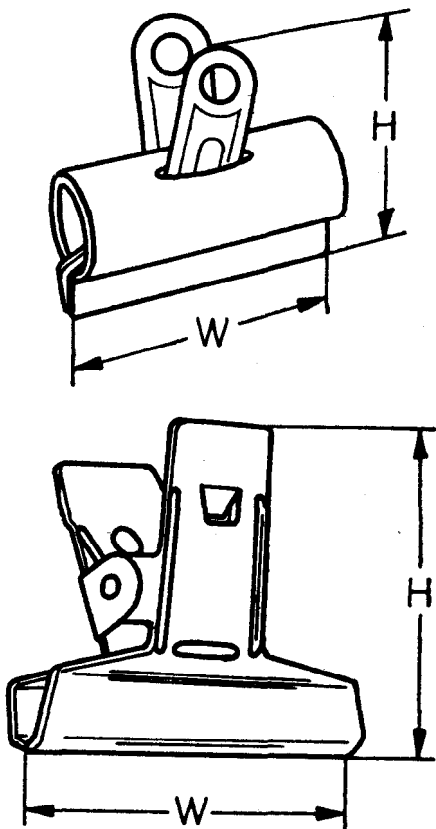
Width (A) ± 2	Height (B) ± 2	Depth (C) ± 2	Thickness ± 0.1	Handle Dia ± 0.1	Overall Height (D) ± 2	Capacity (Max) ± 2
51	32	27	0.56	2.4	66	25
41	25	22	0.51	2.0	63	19
32	19	16	0.42	1.8	44	14
19	11	8	0.28	1.4	25	7

Adopted 18 October 1976

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TABLE 2 DIMENSIONS OF TYPE 2 CLIPS
(Clause 4)



Width of Jaw (W) ± 2	Capacity Min (mm)	Overall Height mm (H) ± 2
140	19	53
63	19	60
63	9.5	48
54	22	48
30	9.5	35

5. Workmanship and Finish

- 5.1 The handles when pressed together shall cause the jaws of the clips to open.
- 5.2 A hole shall be provided in the handles of the clips for hanging them.
- 5.3 Two slits of equal width shall be provided on the cylindrical spring for inserting the handles.
- 5.4 The width of the cylindrical spring and the gripping edge of the handle shall be equal up to 63 mm wide.
- 5.5 The spring shall not be detachable from the jaws or the jaws shall become misaligned during normal use in Type 2 clips.
- 5.6 The gripping shall be uniform throughout the jaws.
- 5.7 The clips shall be free from burrs, sharp edges which may affect the appearance or serviceability or hazardous to the user.
- 5.8 The surfaces shall be protected by a suitable finish. The finish shall not crack, chip or scale and shall leave no mark on paper. The surfaces may be nickel or chromium coated conforming to IS : 1068-1968 ' Specification for electroplated coatings of nickel and chromium on iron and steel (first revision) '.
- 5.9 The clips may be blue finished, if required by the consumer.

6. Tests

6.1 Holding Strength — Insert paper sheet 0.12 mm thick between the jaws of the clips. Suspend the weight from the paper as given in Table 3. The clips shall hold the specified weight without the paper slipping at any point in the jaws.

TABLE 3 HOLDING TEST

<i>Type 1</i>		<i>Type 2</i>	
Clip Size mm	Weight kg	Clip Size mm	Weight kg
51	0.45	140	0.84
41	0.39	54	0.50
32	0.34	63 (19 cap)	0.50
19	0.17	63 (9.5 cap)	0.45
		30	0.34

6.2 Opening — Place sufficient weight on the handle of the clips to open the jaws to approximately half of the capacity. The required weight shall not be more than 5.4 kg or less than that given in Table 4.

TABLE 4 OPENING TEST

<i>Type 1</i>		<i>Type 2</i>	
Clip Size mm	Weight kg	Clip Size mm	Weight kg
51	3.2	140	1.8
41	2.7	54	1.8
32	2.3	63 (19 cap)	1.8
19	1.4	63 (9.5 cap)	1.4
		30	0.9

6.3 Capacity — Insert a block of wood of thickness as specified in Table 5 between the jaws of clips. Remove the block after 24 hours and insert a sheet of 32 M bond paper. The clips shall hold the paper family. The spring shall not fracture at any point after the block of wood is removed.

TABLE 5 CAPACITY TEST

All dimensions in millimetres.

<i>Type 1</i>		<i>Type 2</i>	
Clip Size (Jaw Width)	Thickness of Block of Wood	Clip Size (Jaw Width)	Thickness of Block of Wood
51	25	140	12
41	19	54	12
32	14	63 (19 cap)	12
19	9.5	63 (9.5 cap)	8
		30	8

6.4 Corrosion Resistance — Dip the clips in a solution of mineral spirit to remove the surface film or grease and wipe dry. Place the clips in a boiling 10 percent aqueous solution of sodium chloride for 15 minutes. Remove it from the solution and immediately place them in a similar solution at room temperature for 24 hours. Allow it to dry at room temperature without wiping. Rinse the clips in luke warm water. Allow them to dry and examine the clips for signs of corrosion. There shall not be any sign of corrosion.

7. Marking

7.1 The clips shall be marked with the manufacturer's name, initials or recognized trade-mark and size.

7.2 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The clips may be packed as agreed to between the purchaser and the supplier.